a. - \(\int \text{Twee Verse}\) \(\text{Mod } \left(\hat{y}_n \right) = - \left(\hat{y}_n \left(\hat{y}_n \right) \dag \le · 1 / 0 w=0 · 197- - 10 log (ŷ) = - log (ŷ) b. Dave-soft maso (VCio, U) = De (-log - Error Vacabers (Un' Vc)) Dre 15 1/2 3v. (-log explus v.) + log 5 exp(us.val) = fv (-No Ve) + log I emp (UW Vo)) The Tollor to Suchas exp(UN) =-Uot - waterablexp(UNVa).Un)

WEVOCAD Exp(UNVa) =- Uot Torovas Jin Un - . I (g, Un - Yw Uw) - . In (gw-yw) Un - U(g-1) Jnairensoftmax (Vo, O, U) - 2 (- loyexp(UoTvo) + log & Bop (UnTvo)) - 3 Un Ve + Ten (Un TVe). July - 1 w=0 - - 200 - - 200 - - 25 yw = 25 yw ·原动二型 [-YwVit 豆 gop(uw·Vi) Vi) - Zevous vo lým - ym) = (Ve (Nov-1) w=0

D'In Aire-safomar (Va,o, U) = [Ju, i Jun ... Jun] 30 - (ext)2 - (ext)2 - (ext)2 - (ext)2 - 6(x). (1-a0) f. (1) They sample (ve, o, U) = 3 [-loy(6(Us ve))- 2 tog (6 (Us ve))] - (- 16(u, 1/v)) (u, 6(u, 1/v)) (1-6(u, 1/v)))

- (- 16(u, 1/v)) (u, 6(-u, 1/v))

- (- 16(u, 1/v)) (1-6(-u, 1/v))

- (- 16(u, 1/v))

- (- 16(u, 1/v)) -- Udl-dus/1+ 2 Ux (1-6(-4/16)) = 40(0(1051/-1)- 2 4/4×(6(-4/21/1)) (2) 2 Tray-sumplo (v., o, U) - 2 (- log (6 (uo Vol) - Fig log (6 (-Uk Vol))) - full-log(6[ustra])]- fus[= 1016[-uxtra]] = 20 [- log (6 (u, V))] = - [(u]v) (6(u)v)(1-6(u, v)) vi = 6 = Vo (6 (U0 VOH) (3) They sample (ve, o, U) = . . o - 2 II [= log (6 (-UK Ve/))]

= -V66(-UKV0)(1-61-UKV01) - 6(-UKV0) = V6(1-6(-UKV0))

July sample (Vc; O. U) = Dif-log(6(Us'Vs))- En log(6(Us'Vs))] -0- 3me [= log(6(-uk/V))] -- [] Juk log (6(- Ui'u)) +] Juk log (6(- Ui'u)) + [Juk log (6(- Ui'm)) + [Juk log (6(- Ui'm))] - - 2 Jun - Jun bog(6(-UiVal) -id1, .., Kl-Wi=Mc (1-6(-UK 1/Va)) h. d Jskip:gram (Vi, Worm; Worm, U) - 5 Ilvanti U) (2) 2 Jskip-gram (Vc, Warm, ... Worm, Worm, W) = 5 J(VL, Waj, U) (3) Diskip-gram (VC) Worm, Worm, W) =0

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